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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,901	04/19/2004	Hovanes John Ter-Zakarian	12,616	2222
2675 WILLIAM W. 1	7590 03/19/200 HAEFLIGER	EXAMINER		
201 S. LAKE A SUITE 512	VE	SOROUSH, LAYLA		
PASADENA, C	CA 91101		ART UNIT	PAPER NUMBER
			1617	
			MAIL DATE	DELIVERY MODE
			03/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Appli	cation No.	Applicant(s)	Applicant(s)			
		10/82	6,901	TER-ZAKARIAN,	HOVANES JOHN			
		Exam	iner	Art Unit				
		LAYL	A SOROUSH	1617				
Period fo	The MAILING DATE of this commun or Reply	ication appears or	the cover sheet wi	th the correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any r	CRTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRY PERIOD FOR THE MINISTRY OF TH	AILING DATE OF of 37 CFR 1.136(a). In r unication. tutory period will apply a will, by statute, cause the	THIS COMMUNIO no event, however, may a r nd will expire SIX (6) MON e application to become AB	CATION. eply be timely filed ITHS from the mailing date of this of the control of	·			
Status								
1)	Responsive to communication(s) file	d on 10 Decembe	er 2007					
· · · · · · · · · · · · · · · · · · ·		2b)⊠ This action						
3)		<i>'—</i>		ers prosecution as to the	e merits is			
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	ciocoa in accordance with the practi	oo anaor Ex parte	Quay,0, 1000 0.D	. 11, 100 0.0. 210.				
Dispositi	on of Claims							
4)🛛	Claim(s) 1 and 3-5 is/are pending in	the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	☐ Claim(s) is/are allowed.							
6)🖂	☑ Claim(s) <u>1 and 3-5</u> is/are rejected.							
	Claim(s) is/are objected to.							
•	Claim(s) are subject to restrict	tion and/or election	on requirement.					
Applicati	on Papers							
-	The specification is objected to by the							
10)	The drawing(s) filed on is/are:	a) accepted c	r b)⊡ objected to∃	by the Examiner.				
	Applicant may not request that any object	ction to the drawing	(s) be held in abeyan	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is re	quired if the drawing	(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Examiner	. Note the attached	d Office Action or form P	TO-152.			
Priority ເ	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application 				

DETAILED ACTION

The response filed December 10, 2007 presents remarks and arguments submitted to the office action mailed September 21, 2007 is acknowledged.

Applicant's amendments submitted December 10, 2007 is acknowledged wherein claims 1, 2, and 4 are amended and claims 6 and 7 are canceled.

Applicant's arguments over the 35 U.S.C. 103 (a) rejection of claims 1, and 3-7 over Frenkel et al. (Increased urinary leukotriene E4 during febrile attacks in the hyperimmuno-globulinaemia D and periodic fever syndrome) in view of Sims et al. (US Pat Applic. 2001/0053764) and PDR (53rd edition 1999) is persuasive. Therefore, the rejection of record is herewith withdrawn.

See new rejections below:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, and 3- 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frenkel et al. (Increased urinary leukotriene E4 during febrile attacks in the hyperimmuno-globulinaemia D and periodic fever syndrome – previously presented) in

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view of Sawyer et al. (6,797,723), Sims et al. (US Pat Applic. 2001/0053764– previously presented) and PDR (53rd edition 1999– previously presented).

Frenkel et al. teaches "leukotreine receptor antagonists might offer a new therapeutic approach for patients with the hyperimmunoglobulinaemia D and periodic fever syndrome (abstract –conclusion)."

Sims et al. teaches that periodic fever syndrome include familial Mediterranean fever (p. 8, paragraph [0054]).

The references do not specifically teach the leukotreine receptor antagonists in a dosage between 5 and 15 milligrams, administered orally, on a daily basis, to humans between the age of 9 and 72 years, nor the leukotreine receptor antagonists consisting of Zafirlukast or Singulair.

Sawyer et al. teaches leukotriene B4 receptor (LTB4) antagonists, useful for treatment of inflammatory diseases (abstract). Such inflammatory diseases are inclusive of bronchial asthma and familial Mediterranean fever (col 3 lines 48 and col 4 line 4). These leukotriene B4 receptor (LTB4) antagonists are adminstered orally and in the form of a tablet (col 115 lines 32 and 47). The amount of the leukotriene B4 receptor (LTB4) antagonists in oral form is 1 to about 1000 milligrams per day.

The PDR (53rd edition 1999) teaches that singular tablets are orally active leukotriene receptor antagonist (p. 1886 Description) useful in treating inflammatory diseases such as asthma. The recommended dosage amount for adolescents and adults 15 years of age and older is 10 mg tablets daily and for pediatric patients 6 to 14 years of age in one 5 mg. Chewable tablet daily (p. 1889 Dosage and administration).

Additionally, the PDR (53rd edition 1999) teaches that Zafirlukast is a selective peptide leukotriene receptor antagonist (see p. 3402 Description) useful in treating asthma. The recommended oral dosage of Zafirlukast is 20 mg twice daily in adult and children 12 years and older.

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It would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ a leukotriene receptor antagonist of in the dosage amount between 5 and 15 milligrams, administered orally, on a daily basis, to humans between the age of 9 and 72 years, and the leukotreine receptor antagonists consisting of Zafirlukast or Singulair. Further, it would have been obvious to lower the dosage of Zafirlukast in children because it is known that recommended children's intake of drugs are at lower dosages than adults. This is further distinguished by PDR's teachings that singular, a leukotriene receptor antagonist, is given to adults and children at different concentrations. The motivation to use a leukotriene receptor antagonist of Frenkel et al. in the dosage amount between 5 and 15 milligrams, administered orally, on a daily basis, to humans between the age of 9 and 72 years is because Sawyer et al. teaches leukotriene B4 receptor (LTB4) antagonists, useful for treatment of inflammatory diseases (abstract). Such inflammatory diseases are inclusive of bronchial asthma and familial Mediterranean fever (col 3 lines 48 and col 4 line 4). These leukotriene B4 receptor (LTB4) antagonists are administered orally and in the form of a tablet (col 115 lines 32 and 47). The amount of the leukotriene B4 receptor (LTB4) antagonists in oral form is 1 to about 1000 milligrams per day and the PDR teaches that the said leukotriene receptor antagonist are therapeutically effective in the dosage range

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claimed, administered orally, on a daily basis, and to patients in the claimed age range.

Therefore, a skilled artisan would have reasonable expectation of successfully producing a therapeutically effective oral pharmaceutical formulation in the dosage range claimed.

Response to Arguments

Applicant's arguments filed on December 10, 2007 have been fully considered.

Applicant's arguments with respect to the rejection of claims 1, and 3-7 under Frenkel et al. (Increased urinary leukotriene E4 during febrile attacks in the hyperimmuno-globulinaemia D and periodic fever syndrome – previously presented) in view of Sims et al. (US Pat Applic. 2001/0053764– previously presented) and PDR (53rd edition 1999– previously presented) are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new grounds of rejection is made in view Frenkel et al. (Increased urinary leukotriene E4 during febrile attacks in the hyperimmuno-globulinaemia D and periodic fever syndrome – previously presented), Sawyer et al. (6,797,723), Sims et al. (US Pat Applic. 2001/0053764– previously presented) and PDR (53rd edition 1999– previously presented.

There is reasonable suggestion by the prior art references that a skilled artisan would have expected a leukotreine receptor antagonist would have been useful in treating patients with familial Mediterranean fever. Frenkel et al. teaches "leukotreine receptor antagonists might offer a new therapeutic approach for patients with the hyperimmunoglobulinaemia D and periodic fever syndrome (abstract –conclusion)."

Additionally, Sawyer et al. teaches leukotriene B4 receptor (LTB4) antagonists, useful for treatment of inflammatory diseases (abstract). Such inflammatory diseases are inclusive of bronchial asthma and familial Mediterranean fever (col 3 lines 48 and col 4 line 4). These leukotriene B4 receptor (LTB4) antagonists are administered orally and in the form of a tablet (col 115 lines 32 and 47). The amount of the leukotriene B4 receptor (LTB4) antagonists in oral form is 1 to about 1000 milligrams per day.

The PDR (53rd edition 1999) teaches that singular tablets are orally active leukotriene receptor antagonist (p. 1886 Description) useful in treating inflammatory diseases such as asthma. Additionally, the PDR (53rd edition 1999) teaches that Zafirlukast is a selective peptide leukotriene receptor antagonist (see p. 3402 Description) useful in treating asthma.

Applicant's arguments are not persuasive.

Conclusion

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Layla Soroush whose telephone number is (571)272-5008. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, can be reached on (571) 272-0629. The fax

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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1617